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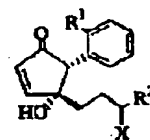
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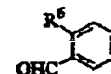
JP11043460A ☐ 19990216 [FullText](#)**Title:** (ENG) PHENYL-SUBSTITUTED HYDROXYCYCLOPENTENONE ANALOGUE**Abstract:** (ENG)

PROBLEM TO BE SOLVED: To obtain the subject new compound having osteogenesis promoting activity.

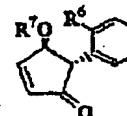
SOLUTION: This new compound is shown by formula I [R¹ is a halogen, etc.; R² is a group of the formula (CH₂)_qY₂R⁵ (Y₂ is O, etc.; R⁵ is H, etc.; (r) is 0 or 1; (q) is 0-5); X is H, etc.], e.g. (4R*,5R*)-4- hydroxy-4-(4-methoxy-1- butyl)-5-[2-(3-methoxycarbonyl-1- propyl)phenyl]-2- cyclopenten-1-one. The compound of formula I is obtained by the following process: furan is lithiated and then reacted with a compound of formula II (R⁶ is a halogen) to form a compound, which is then rearranged, followed by protecting the hydroxyl compound of form a compound of formula III (R⁷ is an OH-protecting group), and an organic borane compound corresponding to R¹ is reacted with the compound of formula III in the presence of a base and a Pd catalyst to form a compound, which is then reacted with an organolithium reagent followed by purification to form a compound of formula IV (X₂ is H, etc.), whose hydroxyl group is then deprotected and oxidized.

Application Number: JP 20184197 A**Application (Filing) Date:** 19970728**Priority Data:** JP 20184197 19970728 A X;**Inventor(s):** TANAMI TOORU ; SHIMAZAKI YOICHI ; ONO NAOYA**Assignee/Applicant/Grantee:** TAISHO PHARMA CO LTD**IPC (International Class):** C07C049753; A61K03112; A61K031215; C07C05982; C07C05990; C07C069738; C07C32322; C07C32352**Other Abstracts for Family Members:** CHEMABS130(17)218312C; DERABS C1999-198999**Other Abstracts for This Document:** CHEMABS130(17)218312C; DERABS C1999-198999

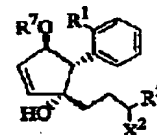
I



II



III



IV



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